

***FlyBy Math™* Alignment**
Priority Academic Student Skills
Mathematics Content Standards

Standard 2: Number Sense - The student will use numbers and number relationships to acquire basic facts and determine the reasonableness of results.

Skills

2. Ratio, Proportion and Percents
 b. Set up equivalent ratios, estimate and solve problems using ratio, proportions, and percents including percents greater than 100 and less than 1 (e.g., determine missing sides of similar figures, heart rate per minute, cost per pound, pay to hours worked overtime).

***FlyBy Math™* Activities**

--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

Standard 3: Geometry - The student will apply the properties and relationships of plane geometry in a variety of contexts.

Skills

3. Rectangular Coordinate System
 a. Locate points on a plane in all four quadrants.

***FlyBy Math™* Activities**

--Plot points on a schematic of a jet route, on a vertical line graph, and on a Cartesian coordinate system to describe the motion of two airplanes.

Standard 4: Measurement - The student will use measurement to solve problems in a variety of contexts.

Skills

2. Customary and Metric Measurements
 a. Select and use appropriate tools for measurements in practical applications and make reasonable estimates of measurements in a particular situation using the appropriate unit.

***FlyBy Math™* Activities**

--Calculate and measure the position and time of simulated aircraft. Represent that motion using tables, graphs, equations, and experimentation.